HIGH-RESOLUTION UNCOOLED THERMAL CORE

Xenics
EXOSENS GROUP

# Crius 1280 Series

*1.3 MEGAPIXELS IN A VERY COMPACT LWIR CORE*

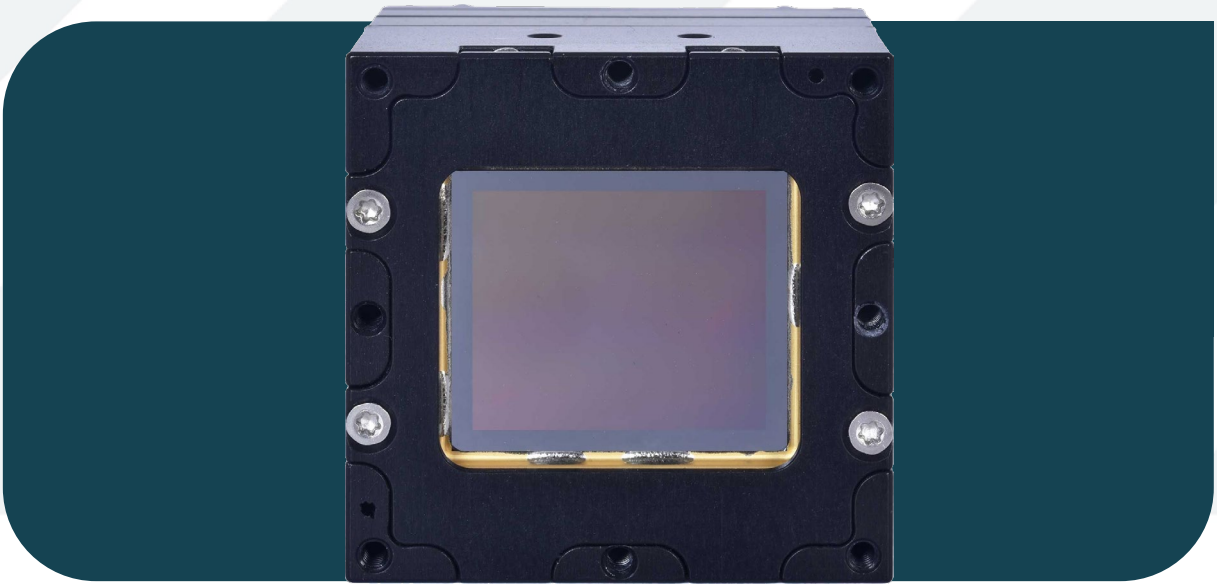
## KEY FEATURES

- **VERY HIGH RESOLUTION - 12µm FOR BETTER DRI RANGES**
- **SMALL, LIGHT & LOW POWER CONSUMPTION**
- **FRAME RATE UP TO 60 FPS**

Thanks to its amazing compactness and the outstanding resolution, Crius series enable enhancement of electro optical-systems performances: major benefit is DRI (Detection Recognition Identification), a key factor for long range observation platforms in Search and Rescue or surveillance of sensitive areas for plants, border.

Its generic design ensures easy integration retrofit of existing E/O systems in defense and security.

# Crius 1280 Series



## KEY PERFORMANCES

| | |
|---|---|
| Sensor | Micro-bolometer technology |
| Resolution / Pixel Pitch | 1280 x 1024 pixels / 12 µm |
| Spectral Range | 8 – 14 µm |
| Max NETD (F/1 ; 300K ; 30 Hz) | < 50 mK |
| Operating temperature range | -40°C to +70°C |
| Power consumption (DF40) | < 2.8 W |
| Qualification | Industrial (Standard grade) |

## FUNCTIONS & INTERFACES

| | |
|---|---|
| Image processing | BPC (Bad Pixel Correction),<br>NUC (Non-Uniformity Correction),<br>AGC (Automatic Gain Control) |
| Image optimisation | AGC (Automatic Gain Control) |
| Output options | CL, SDI, DF40, MIPI CSI-2 |
| Dimensions (L x B x H) (DF40) | 35 x 35 x 27 $mm^3$ |
| Shutter options | Shutterless<br>(DF40, SDI, MIPI CSI-2) |
| Weight (DF40) | < 90 gr |

## PRODUCT SELECTOR GUIDE

| | |
|---|---|
| XEN-000917 (Crius 1280 50 mK (60 Hz)) | XEN-000919 (Crius 1280 50 mK (9 Hz)) |
| XEN-000988 (Crius 1280 40 mK (9 Hz)) | XEN-000989 (Crius 1280 40 mK (60 Hz)) |

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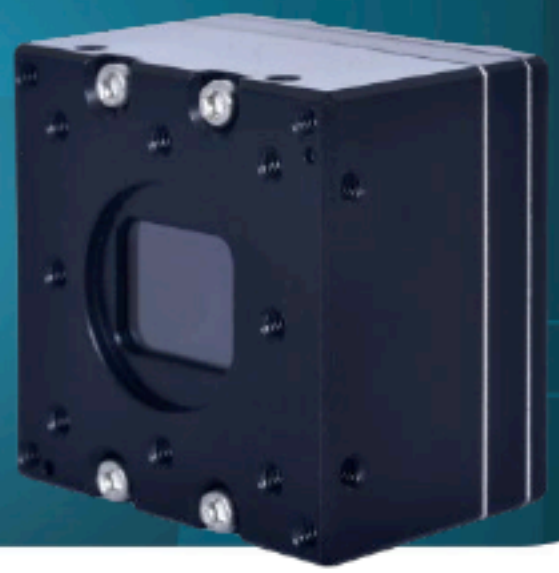
# Crius 640 Series



*ULTRA-COMPACT VGA*
*THERMAL IMAGING CORE*

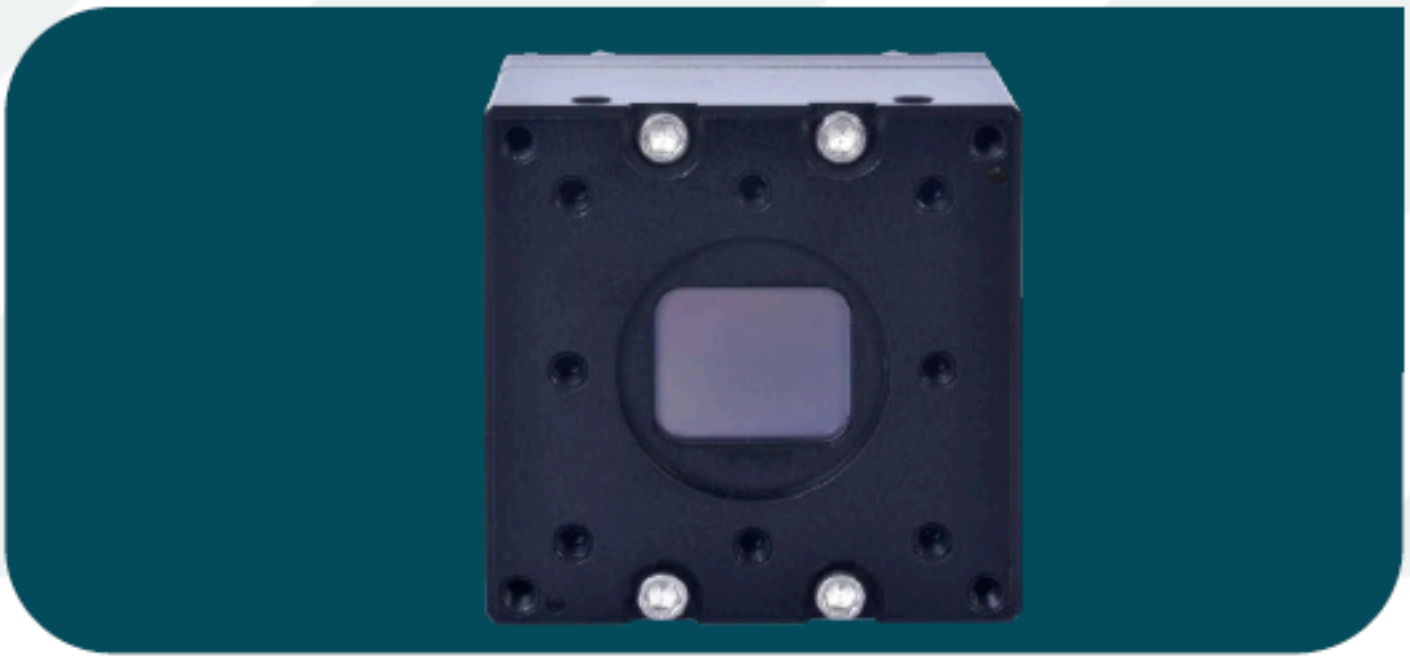
## KEY FEATURES

- **VERY HIGH RESOLUTION - 12µm FOR BETTER DRI RANGES**
- **SMALL, LIGHT & LOW POWER CONSUMPTION**
- **FRAME RATE UP TO 60 FPS**

Thanks to its amazing compactness and the outstanding resolution, Crius series enable enhancement of electro optical-systems performances: major benefit is DRI (Detection Recognition Identification), a key factor for long range observation platforms in Search and Rescue or surveillance of sensitive areas for plants, border.

Its generic design ensures easy integration and retrofit of existing E/O systems in defense and security.

# Crius 640 Series



## KEY PERFORMANCES

| | |
|---|---|
| Sensor | Micro-bolometer technology |
| Resolution / Pixel Pitch | 640 x 480 pixels / 12 µm |
| Spectral Range | 8 – 14 µm |
| Max NETD (F/1 ; 300K ; 30 Hz) | < 50 mK or < 40 mK |
| Operating temperature range | -40°C to +70°C |
| Power consumption (DF40) | < 1.2 W |
| Qualification | Industrial (Standard grade) |

## FUNCTIONS & INTERFACES

| | |
|---|---|
| Image processing | BPC (Bad Pixel Correction), NUC (Non-Uniformity Correction), Shutterless NUC |
| Image optimisation | AGC (Automatic Gain Control) |
| Output options | CL, SDI, DF40 |
| Additional option | On DF40: Handheld/manual control interface + micro display interface |
| Dimensions (L x B x H) (DF40) | 30 x 30 x 23 $mm^3$ |
| Weight (DF40) | < 38 g |

## PRODUCT SELECTOR GUIDE

| | |
|---|---|
| XEN-000920 [Crius 640 50 mK (60 Hz)] | XEN-000921 [Crius 640 50 mK (9 Hz)] |
| XEN-000922 [Crius 640 40 mK (60 Hz)] | XEN-000923 [Crius 640 40 mK (9 Hz)] |

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HIGH-RESOLUTION UNCOOLED
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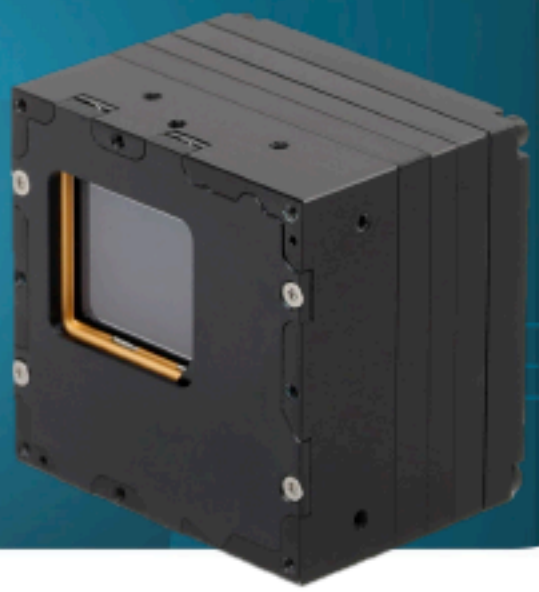
# Crius S 1280 Series



*ULTRA-COMPACT THERMAL CORE FOR BETTER DRI RANGES*

## KEY FEATURES

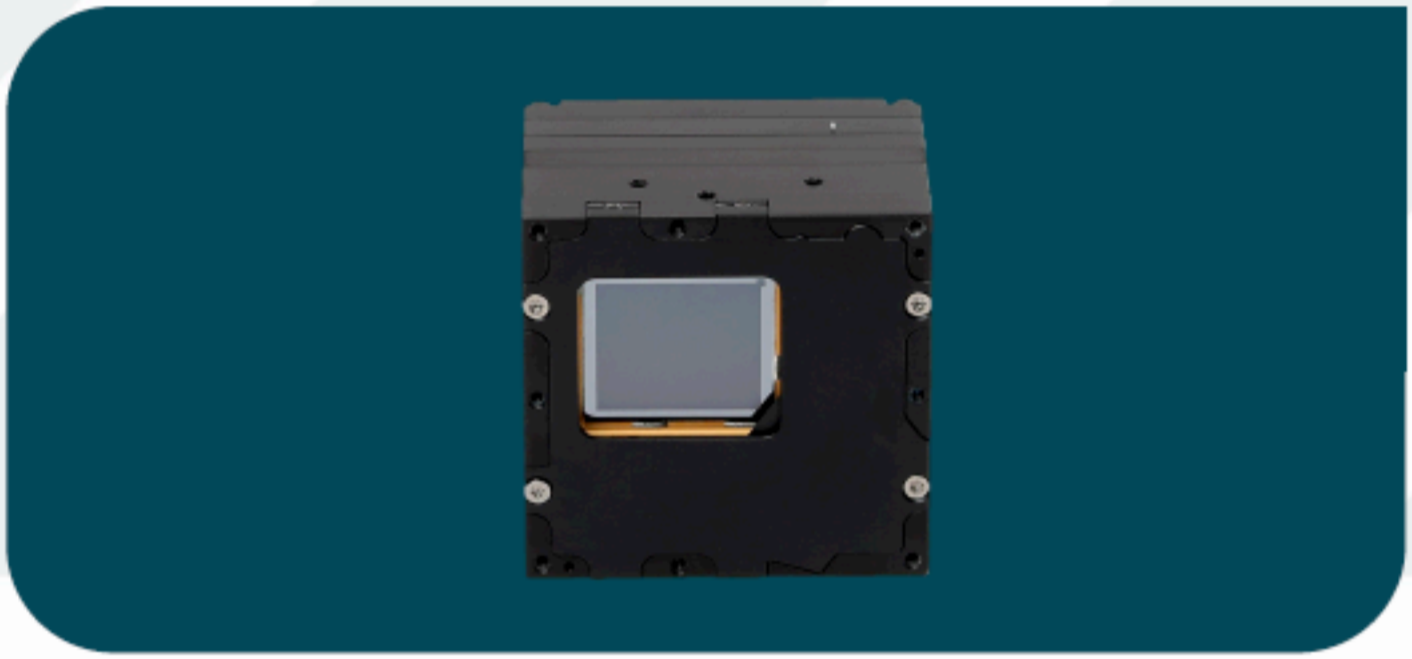
- **HIGH RESOLUTION - 12µm FOR BETTER DRI RANGES**
- **SMALL, LIGHT & LOW POWER CONSUMPTION**
- **FRAME RATE UP TO 60 FPS**
- **UNCOOLED WITH MECHANICAL SHUTTER**

The Crius S 1280 series stands out with its compact design and exceptional resolution, offering enhanced DRI (Detection, Recognition, Identification) capabilities for long-range observation platforms.

Ideal for Search and Rescue missions and the surveillance of critical areas such as borders and infrastructure, it provides unparalleled performance for electro-optical systems.

Its adaptable and universal design ensures effortless integration into existing defense and security E/O systems, making it a versatile choice for upgrading operational efficiency.

# Crius S 1280 Series



## KEY PERFORMANCES

| | |
|---|---|
| Sensor | Micro-bolometer technology |
| Resolution / Pixel Pitch | 1280 x 1024 pixels / 12 µm |
| Spectral Range | 8 – 14 µm |
| Max NETD (F/1 ; 300K ; 30 Hz) | < 50 mK |
| Operating temperature range | -40°C to +70°C |
| Power consumption (DF40) | < 2.8 W (DF40); < 4.5 W (SDI);<br>< 3.0 W (MIPI CSI-2) |
| Qualification | Industrial (Standard grade) |

## FUNCTIONS & INTERFACES

| | |
|---|---|
| Image processing | BPC (Bad Pixel Correction),<br>NUC (Non-Uniformity Correction),<br>AGC (Automatic Gain Control) |
| Image optimisation | AGC (Automatic Gain Control) |
| Output options | DF40, SDI, MIPI CSI-2 |
| Dimensions (L x B x H) | 46 x 47 x 27 $mm^3$ (DF40);<br>46 x 47 x 43 $mm^3$ (SDI);<br>46 x 47 x 31 $mm^3$ (MIPI CSI-2) |
| Shutter options | DF40, SDI, MIPI CSI-2 |
| Weight | <130 gr (DF40); <126 gr (SDI);<br><105 gr (MIPI CSI-2) |

## PRODUCT SELECTOR GUIDE

| | |
|---|---|
| XEN-000968 (Crius S 1280 50 mK (60 Hz)) | XEN-000969 (Crius S 1280 50 mK (9 Hz)) |


For more information please contact:

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